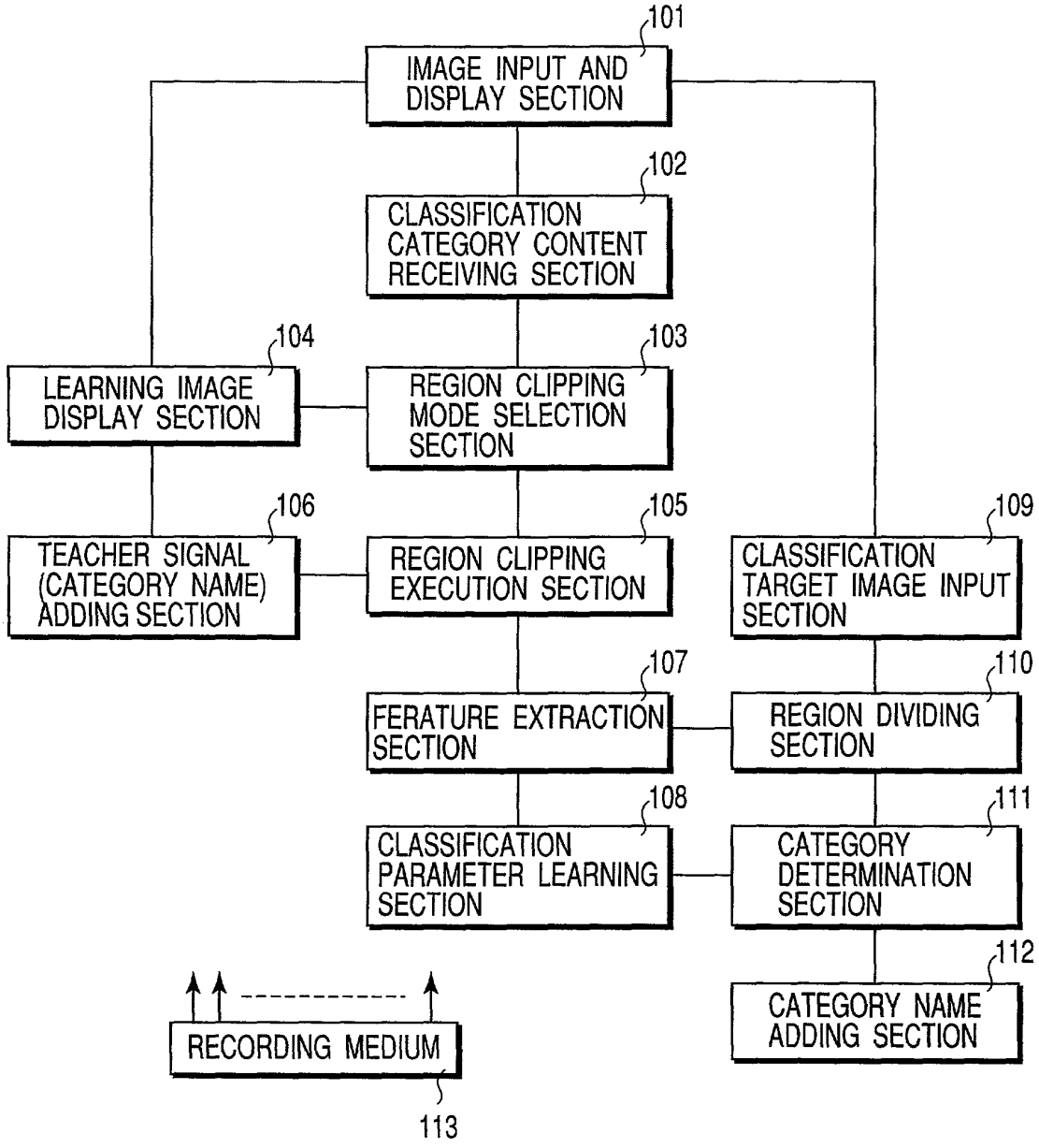
101
IMAGE INPUT AND DISPLAY SECTION
102
CLASSIFICATION CATEGORY CONTENT RECEIVING SECTION
104
LEARNING IMAGE DISPLAY SECTION
103
REGION CLIPPING MODE SELECTION SECTION
106
TEACHER SIGNAL (CATEGORY NAME) ADDING SECTION
105
REGION CLIPPING EXECUTION SECTION
109
CLASSIFICATION TARGET IMAGE INPUT SECTION
107
FERATURE EXTRACTION SECTION
110
REGION DIVIDING SECTION
108
CLASSIFICATION PARAMETER LEARNING SECTION
111
CATEGORY DETERMINATION SECTION
112
CATEGORY NAME ADDING SECTION
RECORDING MEDIUM
113

FIG. 1

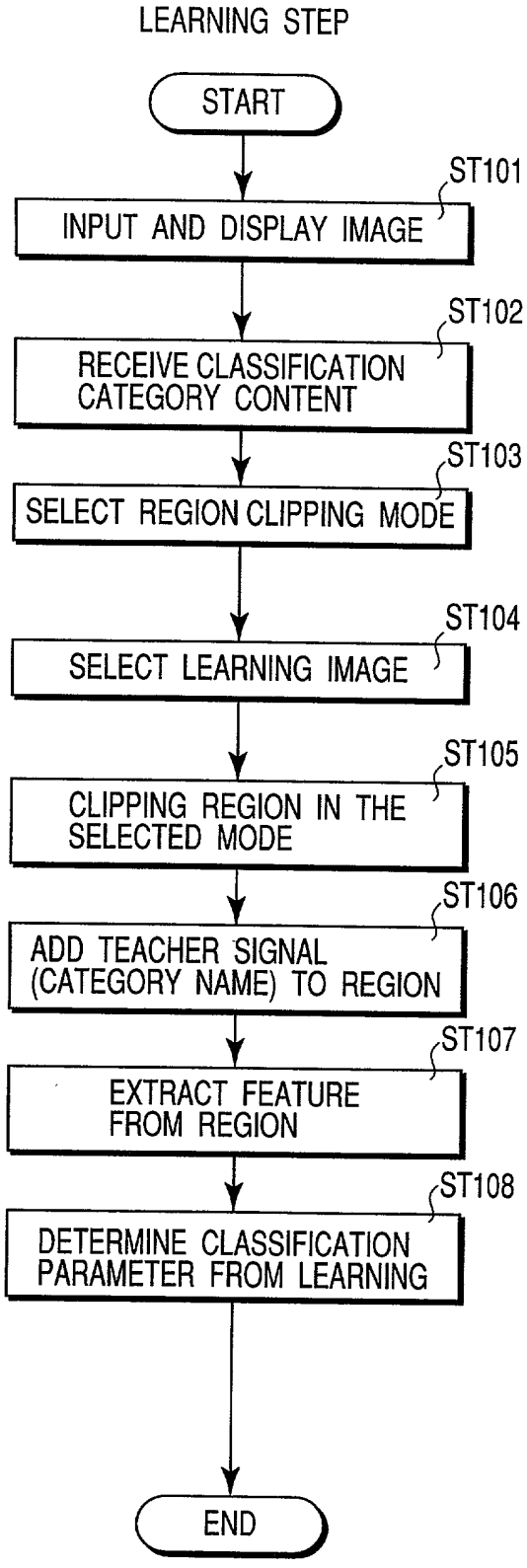
LEARNING STEP
START
ST101
INPUT AND DISPLAY IMAGE
ST102
RECEIVE CLASSIFICATION CATEGORY CONTENT
ST103
SELECT REGION CLIPPING MODE
ST104
SELECT LEARNING IMAGE
ST105
CLIPPING REGION IN THE SELECTED MODE
ST106
ADD TEACHER SIGNAL (CATEGORY NAME) TO REGION
ST107
EXTRACT FEATURE FROM REGION
ST108
DETERMINE CLASSIFICATION PARAMETER FROM LEARNING
END

FIG. 2A

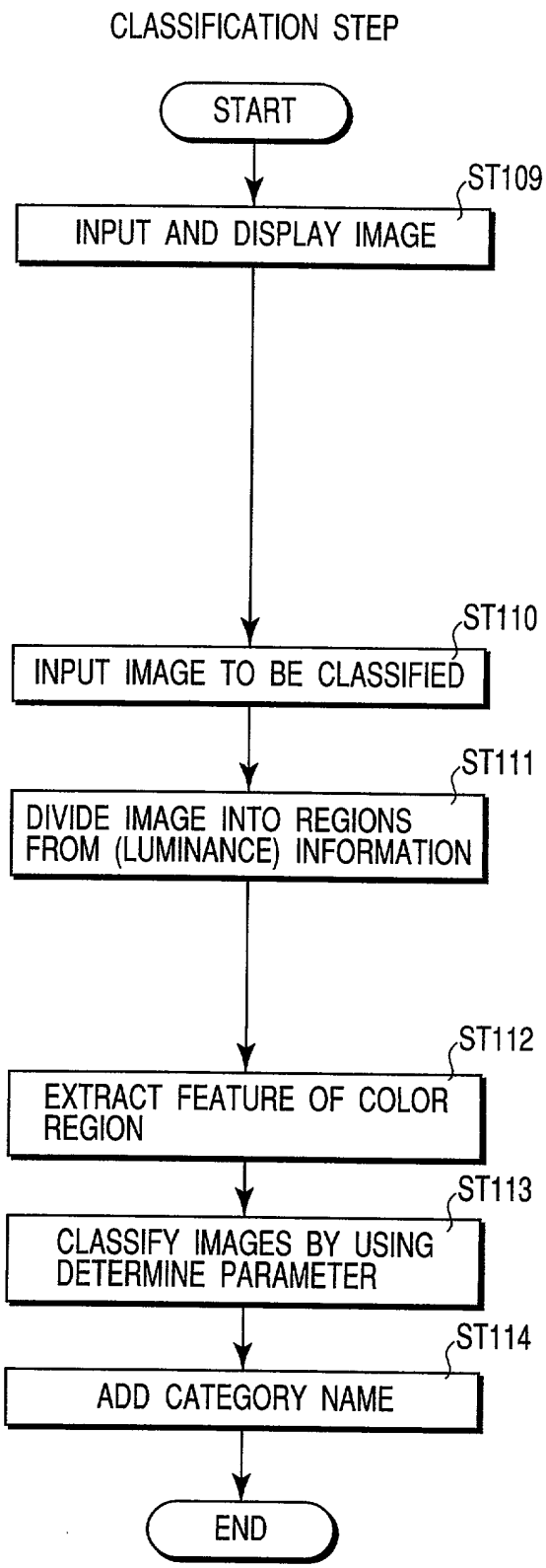
CLASSIFICATION STEP
START
ST109
INPUT AND DISPLAY IMAGE
ST110
INPUT IMAGE TO BE CLASSIFIED
ST111
DIVIDE IMAGE INTO REGIONS FROM (LUMINANCE) INFORMATION
ST112
EXTRACT FEATURE OF COLOR REGION
ST113
CLASSIFY IMAGES BY USING DETERMINE PARAMETER
ST114
ADD CATEGORY NAME
END

FIG. 2B

SEMI-AUTOMATIC REGION CLIPPING MODE

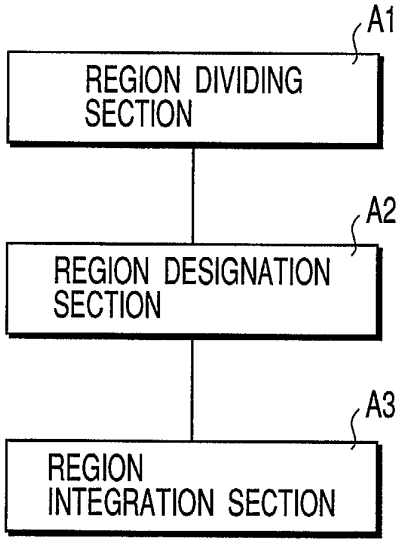

FIG. 3A

LEARNING USAGE REGION CLIPPING MODE

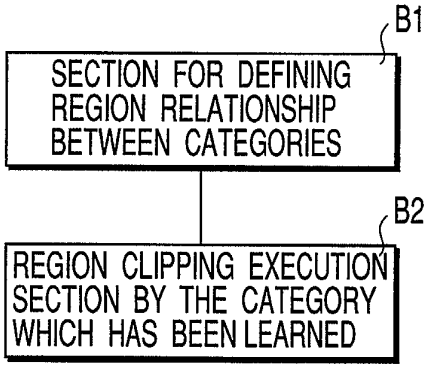

FIG. 3B

INTERACTIVE TYPE REGION CLIPPING MODE

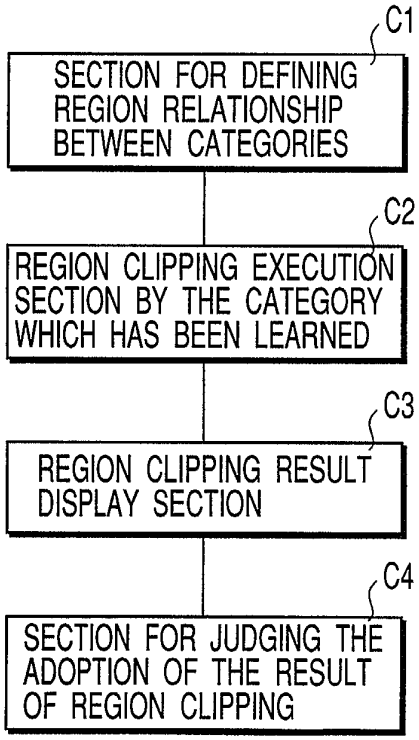

FIG. 3C

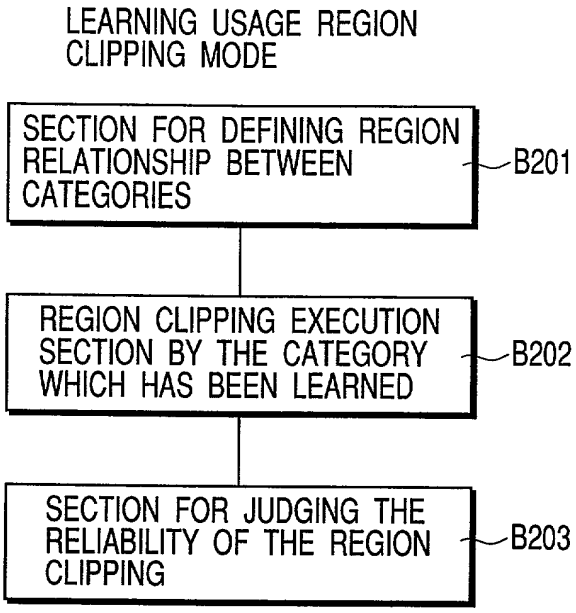
LEARNING USAGE REGION CLIPPING MODE
SECTION FOR DEFINING REGION RELATIONSHIP BETWEEN CATEGORIES
B201
REGION CLIPPING EXECUTION SECTION BY THE CATEGORY WHICH HAS BEEN LEARNED
B202
SECTION FOR JUDGING THE RELIABILITY OF THE REGION CLIPPING
B203

FIG. 4

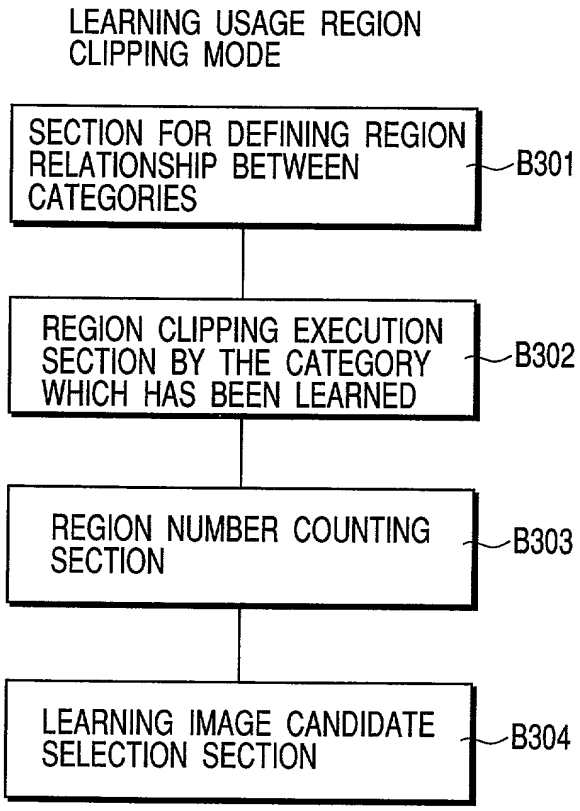
LEARNING USAGE REGION CLIPPING MODE
SECTION FOR DEFINING REGION RELATIONSHIP BETWEEN CATEGORIES
B301
REGION CLIPPING EXECUTION SECTION BY THE CATEGORY WHICH HAS BEEN LEARNED
B302
REGION NUMBER COUNTING SECTION
B303
LEARNING IMAGE CANDIDATE SELECTION SECTION
B304

FIG. 5

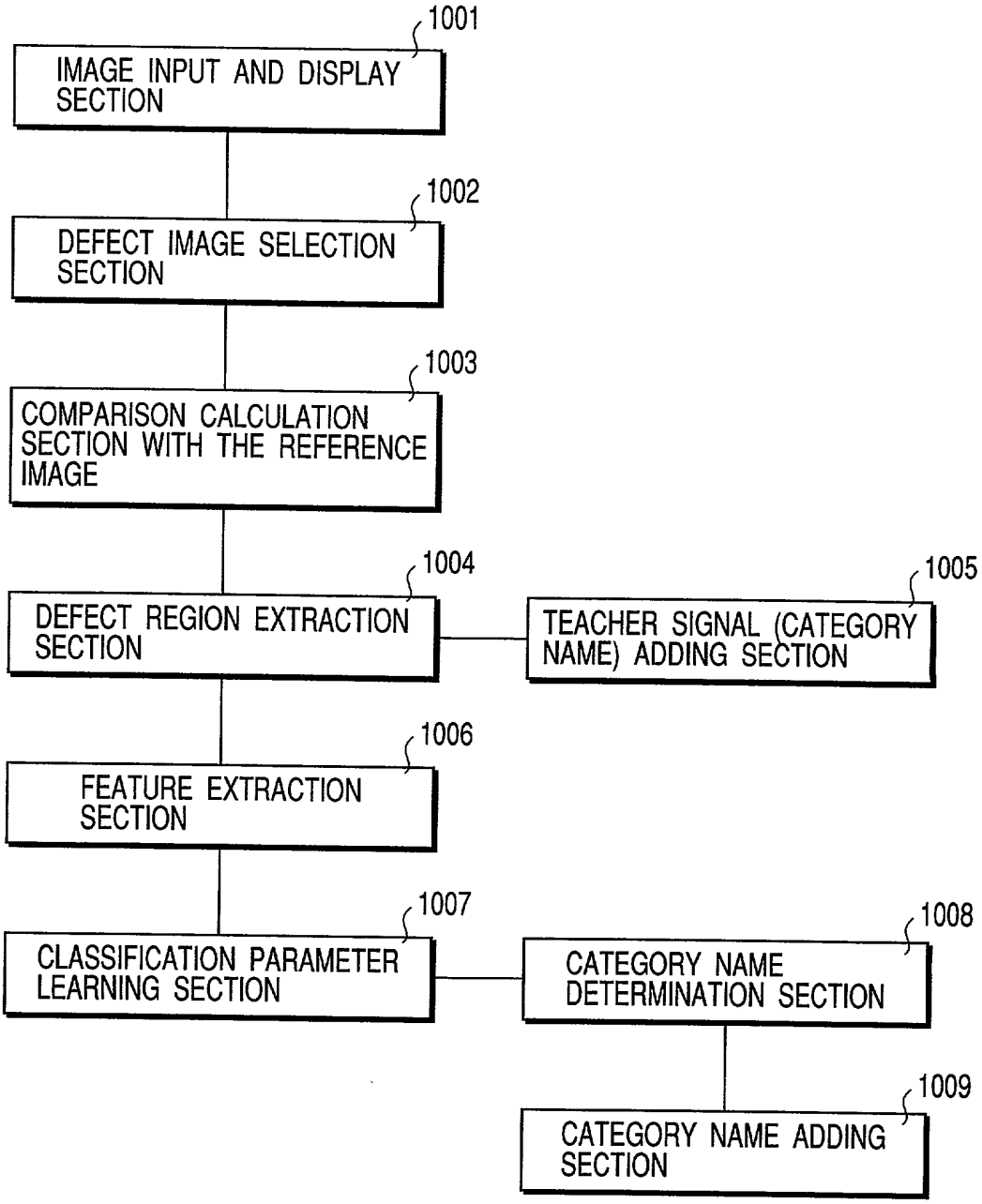

FIG. 6 PRIOR ART

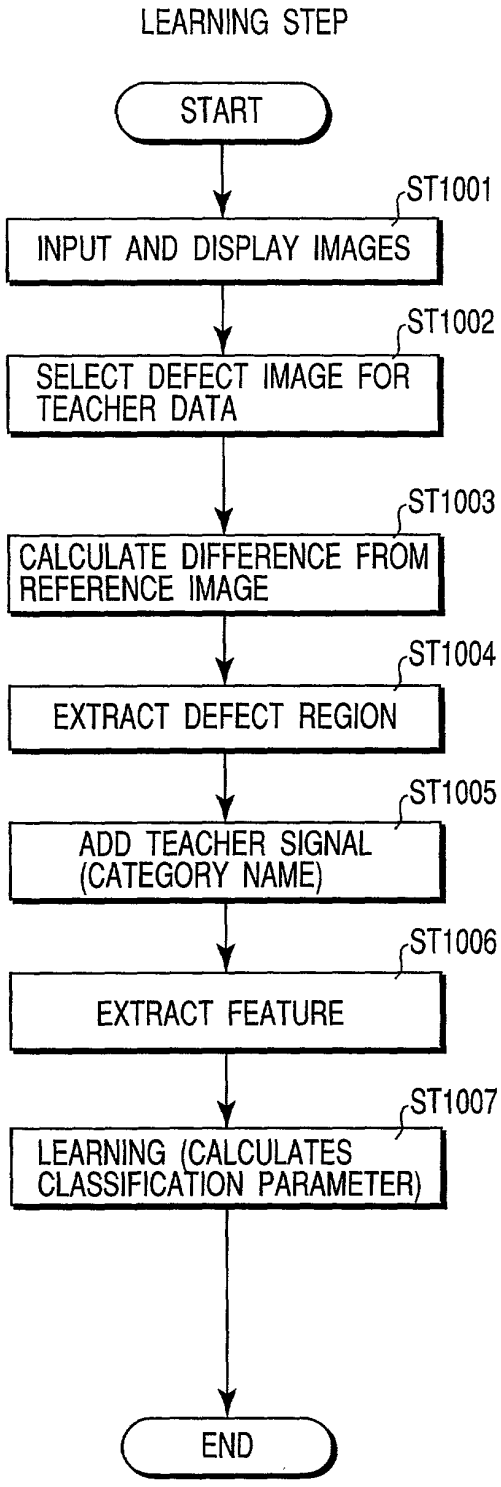

FIG. 7A PRIOR ART

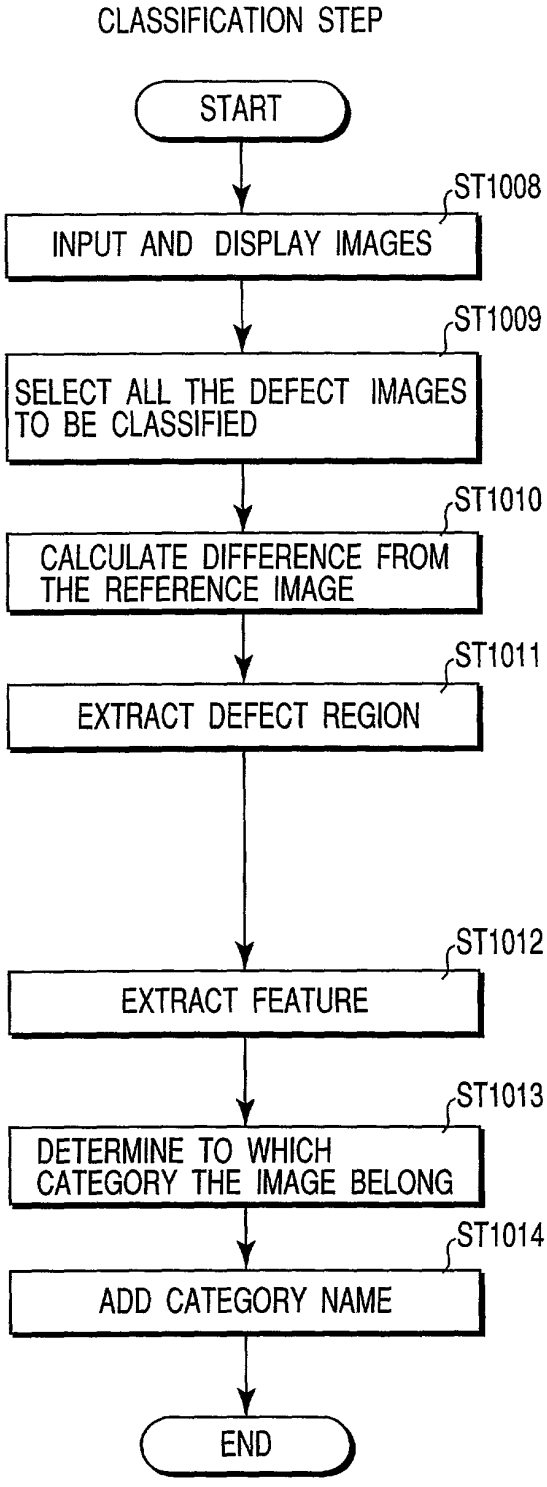

FIG. 7B PRIOR ART